

-1933	AGAAAGAAAG	AGAGAGAGAA	AGAAAAGAAA	GAGGAAGGAA	GGAAGGAAGG	AAGAAAGACA
-1873	GGCTCTGAGG	AAGGTGGCAG	TTCCTACAAC	GGGAGAACCA	GTGGTTAATT	TGCAAAGTGG
-1813	ATCCTGTGGA	GGCANNCAGA	GGAGTCCCCT	AGGCCACCCA	GACAGGGCTT	TTAGCTATCT
-1753	GCAGGCCAGA	CACCAAATTT	CAGGAGGGCT	CAGTGTTAGG	AATGGATTAT	GGCTTATCAA
-1693	ATTCACAGGA	AACATAACATG	TTGAACAGCT	TTTAGATTTC	CTGTGGAAAA	TATAACTTAC
-1633	TAAAGATGGA	GTTCTTGTGA	CTGACTCCTG	ATATCAAGAT	ACTGGGAGCC	AAATTAAAAA
-1573	TCAGAAGGCT	GCTTGGAGAG	CAAGTCCATG	AAATGCTCTT	TTTCCCACAG	TAGAACCTAT
-1513	TTCCCTCGTG	TCTCAAATAC	TTGCACAGAG	GCTCACTCCC	TTGGATAATG	CAGAGCGAGC
-1453	ACGATACCTG	GCACATACTA	ATTTGAATAA	AATGCTGTCA	AATTCCCATT	CACCCATTCA
-1393	AGCAGCAAAC	TCTATCTCAC	CTGAATGTAC	ATGCCAGGCA	CTGTGCTAGA	CTTGGCTCAA
-1333	AAAGATTTCA	GTTTCCTGGA	GGAACCAGGA	GGGCAAGGTT	TCAACTCAGT	GCTATAAGAA
-1273	GTGTTACAGG	CTGGACACGG	TGGCTCACGC	CTGTAATCCC	AACATTTGGG	AGGCCGAGGC
-1213	GGGCAGATCA	CAAGGTCAGG	AGATCGAGAC	CATCCTGGCT	AACATGGTGA	AACCCTGTCT
-1153	CTACTAAAAA	TACAAAAAAT	TAGCCGGGCG	TTGGCGGCAG	GTGCCTGTAG	TCCCAGCTGC
-1093	TGGGGAGGCT	GAGGCAGGAG	AATGGTGTGA	ACCCGGGAGG	CGGAAC TTGC	AGGGGGCCGA
-1033	GATCGTGCCA	CTGCACTCCA	GCCTGGGCGA	CAGAGTGAGA	CTCTGTCTCA	AAAAAAAAAA
-973	AAAAGTGTTA	TGATGCAGAC	CTGTCAAAGA	GGCAAAGGAG	GGTGTTCCTA	CACTCCAGGC
-913	ACTGTTTATA	ACCTGGACTC	TCATTTCATC	TACAAATGGA	GGGCTCCCCT	GGGCAGATCC
-853	CTGGAGCAGG	CAC TTTGCTG	GTGTCTCGGT	TAAAGAGAAA	CTGATAACTC	TTGGTATTAC
-793	CAAGAGATAG	AGTCTCAGAT	GGATATTCTT	ACAGAAACAA	TATTCCCCT	TTTCAGAGTT
-733	CACCAAAAAA	TCATTTTAGG	CAGAGCTCAT	CTGGCATTGA	TCTGGTTCAT	CCATGAGATT
-673	GGCTAGGGTA	ACAGCACCTG	GTCTTGAGG	GTTGTGTGAG	CTTATCTCCA	GGGTTGCCCC
-613	AACTCCGTCA	GGAGCCTGAA	CCCTGCATAC	CGTATGTTCT	CTGCCCCAGC	CAAGAAAGGT
-553	CAATTTTCTC	CTCAGAGGCT	CCTGCAATTG	ACAGAGAGCT	CCCGAGGCAG	AGAACAGCAC
-493	CCAAGGTAGA	GACCCACACC	CTCAATACAG	ACAGGGAGGG	CTATTGGCCC	TTCATTGTAC
-433	CCATTTATCC	ATCTGTAAGT	GGGAAGATTC	CTAAACTTAA	GTACAAAGAA	GTGAATGAAG
-373	AAAAGTATGT	GCATGTATAA	ATCTGTGTGT	CTTCCACTTT	GTCCACATA	TACTAAATTT
-313	AAACATTCTT	CTAACGTGGG	AAAATCCAGT	ATTTTAATGT	GGACATCAAC	TGCACAACGA
-253	TTGTCTAGGAA	AACAATGCAT	ATTTGCATGG	TGATACATTT	GCAAATGTG	TCATAGTTTG
-193	CTACTCCTTG	CCCTTCCATG	AACCAGAGAA	TTATCTCAGT	TTATTAGTCC	CCTCCCCTAA
-133	GAAGCTTCCA	CCAATACTCT	TTTCCCCTTT	CCTTTAACTT	GATTGTGAAA	TCAGGTATTC
-73	AACAGAGAAA	TTTCTCAGCC	TCCTACTTCT	GCTTTTGAAA	GCTATAAAAA	CAGCGAGGGA
-13	GAAACTGGCA	GATACCAAAC	CTCTTCGAGG	CACAAGGCAC	AACAGGCTGC	TCTGGGATTC
48	TCTTCAGCCA	ATCTTCATTG	CTCAAGTATG	ACTTTAATCT	TCCTTACAAC	TAGGTGCTAA
108	GGGAGTCTCT	CTGTCTCTCT	GCCTCTTTGT	GTGTATGCAT	ATTCTCTCTC	TCTCTCTCTT
168	TCTTTCTCTG	TCTCTCCTCT	CCTTCCTCTC	TGCCTCCTCT	CTCAGCTTTT	TGCAAAAATG
228	CCAGGTGTAA	TATAATGCTT	ATGACTCGGG	AAATATTCTG	GGAATGGATA	CTGCTTATCT
288	AACAGCTGAC	ACCCTAAAGG	TTAGTGTCAA	AGCCTCTGCT	CCAGCTCTCC	TAGCCAATAC
238	ATTGCTAGTT	GGGGTTTGGT	TTAGCAAATG	CTTTTCTCTA	GACCCAAAGG	ACTTCTCTTT
308	CACACATTCA	TTCATTTACT	CAGAGATCAT	TTCTTTGCAT	GACTGCCATG	CACTGGATGC
468	TGAGAGAAAT	CACACATGAA	CGTAGCCGTC	ATGGGGAAGT	CACTCATTTT	CTCCTTTTTA
528	CACAGGTGTC	TGAAGCAGCC	ATGGCAGAAG	TACCTGAGCT	CGCCAGTGAA	ATGATGGCTT
588	ATTACAGGTC	AGTGGAGACG	CTGAGACCAG	TAACATGAGC	AGGTCTCCTC	TTTCAAGAGT

Fig. 1A

```

648 AGAGTGTTAT CTGTGCTTGG AGACCAGATT TTTCCCCTAA ATTGCCTCTT TCAGTGGCAA
708 ACAGGGTGCC AAGTAAATCT GATTTAAAGA CTACTTTCCC ATTACAAGTC CCTCCAGCCT
768 TGGGACCTGG AGGCTATCCA GATGTGTTGT TGCAAGGGCT TCCTGCAGAG GCAAATGGGG
828 AGAAAAGATT CCAAGCCCAC AATACAAGGA ATCCCTTTGC AAAGTGTGGC TTGGAGGGAG
888 AGGGAGAGCT CAGATTTTAG CTGACTCTGC TGGGCTAGAG GTTAGGCCCTC AAGATCCAAC
948 AGGGAGCACC AGGGTGCCCA CCTGCCAGGC CTAGAATCTG CCTTCTGGAC TGTTCCTGCGC
1008 ATATCACTGT GAAACTTGCC AGGTGTTTCA GGCAGCTTTG AGAGGCAGGC TGTTTGCAGT
1068 TTCTTATGAA CAGTCAAGTC TTGTACACAG GGAAGGAAAA ATAAACCTGT TTAGAAGACA
1128 TAATTGAGAC ATGTCCCTGT TTTTATTACA GTGGCAATGA GGATGACTTG TTCTTTGAAG
1188 CTGATGGCCC TAAACAGATG AAGGTAAGAC TATGGGTTTA ACTCCCAACC CAAGGAAGGG
1248 CTCTAACACA GGGAAAGCTC AAAGAAGGGA GTTCTGGGCC ACTTTGATGC CATGGTATTT
1308 TGTTTTAGAA AGACTTTAAC CTCTTCCAGT GAGACACAGG CTGCACCACT TGCTGACCTG
1368 GCCACTTGGT CATCATATCA CCACAGTCAC TACTAACGT TGGTGGTGGT GGCCACACTT
1428 GGTGGTGACA GGGGAGGAGT AGTGATAATG TTCCCATTTT ATAGTAGGAA GACAACCAAG
1488 TCTTCAACAT AAATTTGATT ATCCTTTTAA GAGATGGATT CAGCCTATGC CAATCACTTG
1548 AGTTAAACTC TGAAACCAAG AGATGATCTT GAGAACTAAC ATATGTCTAC CCCTTTTGAG
1608 TAGAATAGTT TTTTGCTACC TGGGGTGAAG CTTATAACAA CAAGACATAG ATGATATAAA
1668 CAAAAAGATG AATTGAGACT TGAAAGAAAA CCATTCACTT GCTGTTTGAC CTTGACAAGT
1728 CATTTTACCC GCTTTGGACC TCATCTGAAA AATAAAGGGC TGAGCTGGAT GATCTCTGAG
1788 ATTCCAGCAT CCTGCAACCT CCAGTTCTGA AATATTTTCA GTTGTAGCTA AGGGCATTTG
1848 GGCAGCAAAT GGTCATTTT CAGACTCATC CTTACAAAGA GCCATGTTAT ATTCCTGCTG
1908 TCCCTTCTGT TTTATATGAT GCTCAGTAGC CTTCTAGGT GCCCAGCCAT CAGCCTAGCT
1968 AGGTCAGTTG TGCAGGTTGG AGGCAGCCAC TTTTCTCTGG CTTTATTTTA TTCCAGTTTG
2028 TGATAGCCTC CCCTAGCCTC ATAATCCAGT CCTCAATCTT GTTAAAAACA TATTTCTTTA
2088 GAAGTTTAA GACTGGCATA ACTTCTTGGC TGCAGCTGTG GGAGGAGCCC ATTGGCTTGT
2148 CTGCCTGGCC TTTGCCCCC ATTGCCTCTT CCAGCAGCTT GGCTCTGCTC CAGGCAGGAA
2208 ATTCTCTCCT GCTCAACTTT CTTTTGTGCA CTTACAGGTC TCTTTAACTG TCTTTCAAGC
2268 CTTTGAACCA TTATCAGCCT TAAGGCAACC TCAGTGAAGC CTTAATACGG AGCTTCTCTG
2328 AATAAGAGGA AAGTGGTAAC ATTTACAAA AAGTACTCTC ACAGGATTTG CAGAATGCCT
2388 ATGAGACAGT GTTATGAAAA AGGAAAAAAA AGAACAGTGT AGAAAAATTG AATACTTGCT
2448 GAGTGAGCAT AGGTGAATGG AAAATGTTAT GGTCACTCTG ATGAAAAAGC AAATCATAGT
2508 GTGACAGCAT TAGGGATACA AAAAGATATA GAGAAGGTAT ACATGTATGG TGTAGGTGGG
2568 GCATGTACAA AAAGATGACA AGTAGAATCG GGATTTATTC TAAAGAATAG CCTGTAAGGT
2628 GTCCAGAAGC CACATTCTAG TCTTGAGTCT GCCTCTACCT GCTGTGTGCC CTTGAGTACA
2688 CCCTTAACCT CTTGAGCTT CAGAGAGGGA TAATCTTTTT ATTTTATTTT ATTTTATTTT
2748 GTTTTGT TTTTGT TTTTATGAG ACAGAGTCTC ACTCTGTTGC CCAGGCTGGA
2808 GTGCAGTGGT ACAATCTTGG CTTACTGCAT CCTCCACCTC CTGAGTTCAA GCGATTCTCC
2868 TTCTCAGTC TCCTGAATAG CTAGGATTAC AGGTGCACCC CACCACACCC AGCTAATTTT
2928 TGTATTTTTA GTAGAGAAGG GGTTTCGCCA TGTTGGCCAG GCTGGTTTTG AAGTCCTGAC
2988 CTAAATGATT CATCCACCTC GGCTTCCCAA AGTGCTGGGA TTACAGGCAT GAGCCACCAC
3048 GCCTGGCCCA GAGAGGGATG ATCTTTAGAA GCTCGGGATT CTTTCAAGCC CTTTCTCCT
3108 CTCTGAGCTT TCTACTCTCT GATGTCAAAG CATGGTTCCT GGCAGGACCA CCTCACCAGG
3168 CTCCCTCCCT CGCTCTCTCC GCAGTGCTCC TTCCAGGACC TGGACCTCTG CCCTCTGGAT

```

Fig. 1B

3228	GGCGGCATCC	AGCTACGAAT	CTCCGACCAC	CACTACAGCA	AGGGCTTCAG	GCAGGCCGCG
3288	TCAGTTGTTG	TGGCCATGGA	CAAGCTGAGG	AAGATGCTGG	TTCCCTGCCC	ACAGACCTTC
3348	CAGGAGAATG	ACCTGAGCAC	CTTCTTTCCC	TTCATCTTTG	AAGAAGGTAG	TTAGCCAAGA
3408	GCAGGCAGTA	GATCTCCACT	TGTGTCCTCT	TGGAAGTCAT	CAAGCCCCAG	CCAACTCAAT
3468	TCCCCCAGAG	CCAAAGCCCT	TTAAAGGTAG	AAGGCCCAGC	GGGGAGACAA	AACAAAGAAG
3528	GCTGGAAACC	AAAGCAATCA	TCTCTTTAGT	GGAAACTATT	CTTAAAGAAG	ATCTTGATGG
3588	CTACTGACAT	TTGCAACTCC	CTCACTCTTT	CTCAGGGGCC	TTTCACTTAC	ATTGTCACCA
3648	GAGGTTGTA	ACCTCCCTGT	GGGCTAGTGT	TATGACCATC	ACCATTTTAC	CTAAGTAGCT
3708	CTGTTGCTCG	GCCACAGTGA	GCAGTAATAG	ACCTGAAGCT	GGAACCCATG	TCTAATAGTG
3768	TCAGGTCCAG	TGTTCTTAGC	CACCCCACTC	CCAGCTTCAT	CCCTACTGGT	GTTGTCATCA
3828	GACTTTGACC	GTATATGCTC	AGGTGTCTCT	CAAGAAATCA	AATTTTGCCA	CCTCGCCTCA
3888	CGAGGCCTGC	CCTTCTGATT	TTATACCTAA	ACAACATGTG	CTCCACATTT	CAGAACCTAT
3948	CTTCTTCGAC	ACATGGGATA	ACGAGGCTTA	TGTGCACGAT	GCACCTGTAC	GATCACTGAA
4008	CTGCACGCTC	CGGGACTCAC	AGCAAAAAAG	CTTGGTGATG	TCTGGTCCAT	ATGAACTGAA
4068	AGCTCTCCAC	CTCCAGGGAC	AGGATATGGA	GCAACAAGGT	AAATGGAAAC	ATCCTGGTTT
4128	CCCTGCCTGG	CCTCCTGGCA	GCTTGCTAAT	TCTCCATGTT	TTAAACAAAG	TAGAAAGTTA
4188	ATTTAAGGCA	AATGATCAAC	ACAAGTGAAA	AAAAATATTA	AAAAGGAATA	TACAACTTTT
4248	GGTCCTAGAA	ATGGCACATT	TGATTGCACT	GGCCAGTGCA	TTTGTTAACA	GGAGTGTGAC
4308	CCTGAGAAAT	TAGACGGCTC	AAGCACTCCC	AGGACCATGT	CCACCCAAGT	CTCTTGGGCA
4368	TAGTGCAGTG	TCAATTCTTC	CACAATATGG	GGTCATTTGA	TGGACATGGC	CTAACTGCCT
4428	GTGGGTTCCTC	TCTTCCTGTT	GTTGAGGCTG	AAACAAGAGT	GCTGGAGCGA	TAATGTGTCC
4488	ATCCCCCTCC	CCAGTCTTCC	CCCCTTGCCC	CAACATCCGT	CCCACCCAAT	GCCAGGTGGT
4548	TCCTTGTAAG	GAAATTTTAC	CGCCCAGCAG	GAACCTATAT	CTCTCCGCTG	TAACGGGCAA
4608	AAGTTTCAAG	TGCGGTGAAC	CCATCATTAG	CTGTGGTGAT	CTGCCTGGCA	TCGTGCCACA
4668	GTAGCCAAAG	CCTCTGCACA	GGAGTGTGGG	CAACTAAGGC	TGCTGACTTT	GAAGGACAGC
4728	CTCACTCAGG	GGGAAGCTAT	TTGCTCTCAG	CCAGGCCAAG	AAAATCCTGT	TTCTTTGGAA
4788	TCGGGTAGTA	AGAGTGATCC	CAGGGCCTCC	AATTGACACT	GCTGTGACTG	AGGAAGATCA
4848	AAATGAGTGT	CTCTCTTTGG	AGCCACTTTC	CCAGCTCAGC	CTCTCCTCTC	CCAGTTTCTT
4908	CCCATGGGCT	ACTCTCTGTT	CCTGAAACAG	TTCTGGTGCC	TGATTTCTGG	CAGAAGTACA
4968	GCTTCACCTC	TTTCCTTTCC	TTCCACATTG	ATCAAGTTGT	TCCGCTCCTG	TGGATGGGCA
5028	CATTGCCAGC	CAGTGACACA	ATGGCTTCCT	TCCTTCCTTC	CTTCAGCATT	TAAAATGTAG
5088	ACCCTCTTTC	ATTCTCCGTT	CCTACTGCTA	TGAGGCTCTG	AGAAACCCTC	AGGCCTTTGA
5148	GGGGAAACCC	TAAATCAACA	AAATGACCCT	GCTATTGTCT	GTGAGAAGTC	AAGTTATCCT
5208	GTGTCTTAGG	CCAAGGAACC	TCACTGTGGG	TTCCACAGA	GGCTACCAAT	TACATGTATC
5268	CTACTCTCGG	GGCTAGGGGT	TGGGGTGACC	CTGCATGCTG	TGTCCCTAAC	CACAAGACCC
5328	CCTTCTTTCT	TCAGTGGTGT	TCTCCATGTC	CTTTGTACAA	GGAGAAGAAA	GTAATGACAA
5388	AATACCTGTG	GCCTTGGGCC	TCAAGGAAAA	GAATCTGTAC	CTGTCTGCG	TGTTGAAAGA
5448	TGATAAGCCC	ACTCTACAGC	TGGAGGTAAG	TGAATGCTAT	GGAATGAAGC	CCTTCTCAGC
5508	CTCCTGCTAC	CACCTATTCC	CAGACAATTC	ACCTTCTCCC	CGCCCCCATC	CCTAGGAAAA
5568	GCTGGGAACA	GGTCTATTTG	ACAAGTTTTG	CATTAATGTA	AATAAATTTA	ACATAATTTT
5628	TAAGTGCCTG	CAACCTTCAA	TCCTGCTGCA	GAAAATTAAA	TCATTTTGCC	GATGTTATTA
5688	TGTCCTACCA	TAGTTACAAC	CCCAACAGAT	TATATATTGT	TAGGGCTGCT	CTCATTTGAT
5748	AGACACCTTG	GGAAATAGAT	GACTTAAAGG	GTCCCATAT	CACGTCCACT	CCACTCCCAA

Fig. 1C

```

5808 AATCACCACC ACTATCACCT CCAGCTTTCT CAGCAAAAGC TTCATTTCCA AGTTGATGTC
5868 ATTCTAGGAC CATAAGGAAA AATACAATAA AAAGCCCCTG GAAACTAGGT ACTTCAAGAA
5928 GCTCTAGCTT AATTTTCACC CCCCCAAAAA AAAAAAATTC TCACCTACAT TATGCTCCTC
5988 AGCATTTGGC ACTAAGTTTT AGAAAAGAAG AAGGGCTCTT TTAATAATCA CACAGAAAGT
6048 TGGGGGCCCA GTTACAACCTC AGGAGTCTGG CTCCTGATCA TGTGACCTGC TCGTCAGTTT
6108 CCTTTCTGGC CAACCCAAAG AACATCTTTC CCATAGGCAT CTTTGTCCCT TGCCCCACAA
6168 AAATTCTTCT TTCTCTTTCG CTGCAGAGTG TAGATCCCAA AAATTACCCA AAGAAGAAGA
6228 TGGAAAAGCG ATTTGTCTTC AACAAGATAG AAATCAATAA CAAGCTGGAA TTTGAGTCTG
6288 CCCAGTTCCC CAACTGGTAC ATCAGCACCT CTCAAGCAGA AAACATGCCC GTCTTCCTGG
6348 GAGGGACCAA AGGCGGCCAG GATATAACTG ACTTCACCAT GCAATTTGTG TCTTCCTAAA
6408 GAGAGCTGTA CCCAGAGAGT CCTGTGCTGA ATGTGGACTC AATCCCTAGG GCTGGCAGAA
6468 AGGGAACAGA AAGGTTTTTG AGTACGGCTA TAGCCTGGAC TTTCTGTGTG TCTACACCAA
6528 TGCCCAACTG CCTGCCTTAG GGTAGTGCTA AGAGGATCTC CTGTCCATCA GCCAGGACAG
6588 TCAGCTCTCT CCTTTCAGGG CCAATCCCCA GCCCTTTTGT TGAGCCAGGC CTCTCTCACC
6648 TCTCCTACTC ACTTAAAGCC CGCCTGACAG AAACCACGGC CACATTTGGT TCTAAGAAAC
6708 CCTCTGTCAT TCGCTCCAC ATTCTGATGA GCAACCGCTT CCCTATTTAT TTATTTATTT
6768 GTTTGTTTGT TTTGATTCAT TGGTCTAATT TATTCAAAGG GGGCAAGAAG TAGCAGTGTC
6828 TGTAAGAGAG CCTAGTTTTT AATAGCTATG GAATCAATTC AATTTGGACT GGTGTGCTCT
6888 CTTTAAATCA AGTCCTTTAA TTAAGACTGA AAATATATAA GCTCAGATTA TTTAAATGGG
6948 AATATTTATA AATGAGCAAA TATCATACTG TTCAATGGTT CTGAAATAAA CTTCACTGAA
7008 GAAAAAAAAA AAAGGGTCTC TCCTGATCAT TGACTGTCTG GATTGACACT GACAGTAAGC
7068 AAACAGGCTG TGAGAGTTCT TGGGACTAAG CCCACTCCTC ATTGCTGAGT GCTGCAAGTA
7128 CCTAGAAATA TCCTTGGCCA CCGAAGACTA TCCTCCTCAC CCATCCCCTT TATTTGTTG
7188 TTCAACAGAA GGATATTCAG TGCACATCTG GAACAGGATC AGCTGAAGCA CTGCAGGGAG
7248 TCAGGACTGG TAGTAACAGC TACCATGATT TATCTATCAA TGCACCAAAC ATCTGTTGAG
7308 CAAGCGCTAT GTACTAGGAG CTGGGAGTAC AGAGATGAGA ACAGTCACAA GTCCCTCCTC
7368 AGATAGGAGA GGCAGCTAGT TATAAGCAGA ACAAGGTAAC ATGACAAGTA GAGTAAGATA
7428 GAAGAACGAA GAGGAGTAGC CAGGAAGGAG GGAGGAGAAC GACATAAGAA TCAAGCCTAA
7488 AGGGATAAAC AGAAGATTTT CACACATGGG CTGGGCCAAT TGGGTGTCGG TTACGCCTGT
7548 AATCCCAGCA CTTTGGGTGG CAGGGGCAGA AAGATCGCTT GAGCCCAGGA GTTCAAGACC
7608 AGCCTGGGCA ACATAGTGAG ACTCCCATCT CTACAAAAAA TAAATAAATA AATAAAACAA
7668 TCAGCCAGGC ATGCTGGCAT GCACCTGTAG TCCTAGCTAC TTGGGAAGCT GACACTGGAG
7728 GATTGCTTGA GCCCAGAAGT TCAAGACTGC AGTGAGCTTA TCCGTTGACC TGCAGGTCGA
7788 C

```

Fig. 1D

-1933	AGAAAGAAAG	AGAGAGAGAA	AGAAAAGAAA	GAGGAAGGAA	GGAAGGAAGG	AAGAAAGACA
-1873	GGCTCTGAGG	AAGGTGGCAG	TTCCTACAAC	GGGAGAACCA	GTGGTTAATT	TGCAAAGTGG
-1813	ATCCTGTGGA	GGCANNCAGA	GGAGTCCCCCT	AGGCCACCCA	GACAGGGCTT	TTAGCTATCT
-1753	GCAGGCCAGA	CACCAAATTT	CAGGAGGGCT	CAGTGTTAGG	AATGGATTAT	GGCTTATCAA
-1693	ATTACACAGGA	AACATAACATG	TTGAACAGCT	TTTAGATTTC	CTGTGGAAAA	TATAACTTAC
-1633	TAAAGATGGA	GTTCTTGTGA	CTGACTCCTG	ATATCAAGAT	ACTGGGAGCC	AAATTAAAAA
-1573	TCAGAAGGCT	GCTTGGAGAG	CAAGTCCATG	AAATGCTCTT	TTTCCCACAG	TAGAACCTAT
-1513	TTCCCTCGTG	TCTCAAATAC	TTGCACAGAG	GCTCACTCCC	TTGGATAATG	CAGAGCGAGC
-1453	ACGATACCTG	GCACATACTA	ATTTGAATAA	AATGCTGTCA	AATTCCCATT	CACCCATTCA
-1393	AGCAGCAAAC	TCTATCTCAC	CTGAATGTAC	ATGCCAGGCA	CTGTGCTAGA	CTTGGCTCAA
-1333	AAAGATTTCA	GTTTCCTGGA	GGAACCAGGA	GGGCAAGGTT	TCAACTCAGT	GCTATAAGAA
-1273	GTGTTACAGG	CTGGACACGG	TGGCTCACGC	CTGTAATCCC	AACATTTGGG	AGGCCGAGGC
-1213	GGGCAGATCA	CAAGGTCAGG	AGATCGAGAC	CATCCTGGCT	AACATGGTGA	AACCCTGTCT
-1153	CTACTAAAAA	TACAAAAAAT	TAGCCGGGCG	TTGGCGGCAG	GTGCCTGTAG	TCCAGCTGC
-1093	TGGGGAGGCT	GAGGCAGGAG	AATGGTGTGA	ACCCGGGAGG	CGGAAC TTGC	AGGGGGCCGA
-1033	GATCGTGCCA	CTGCACTCCA	GCCTGGGCGA	CAGAGTGAGA	CTCTGTCTCA	AAAAAAAAAA
-973	AAAAGTGTTA	TGATGCAGAC	CTGTCAAAGA	GGCAAAGGAG	GGTGTTCCTA	CACTCCAGGC
-913	ACTGTTCATA	ACCTGGACTC	TCATTTCATC	TACAAATGGA	GGGCTCCCCCT	GGGCAGATCC
-853	CTGGAGCAGG	CAC TTTGCTG	GTGTCTCGGT	TAAAGAGAAA	CTGATAACTC	TTGGTATTAC
-793	CAAGAGATAG	AGTCTCAGAT	GGATATTCTT	ACAGAAACAA	TATTTCCACT	TTTCAGAGTT
-733	CACCAAAAAA	TCATTTTAGG	CAGAGCTCAT	CTGGCATTGA	TCTGGTTCAT	CCATGAGATT
-673	GGCTAGGGTA	ACAGCACCTG	GTCTTGACAG	GTTGTGTGAG	CTTATCTCCA	GGGTTGCCCC
-613	AACTCCGTCA	GGAGCCTGAA	CCCTGCATAC	CGTATGTTCT	CTGCCCCAGC	CAAGAAAGGT
-553	CAATTTTCTC	CTCAGAGGCT	CCTGCAATTG	ACAGAGAGCT	CCCGAGGCAG	AGAACAGCAC
-493	CCAAGGTAGA	GACCCACACC	CTCAATACAG	ACAGGGAGGG	CTATTGGCCC	TTTATTGTAC
-433	CCATTTATCC	ATCTGTAAGT	GGGAAGATTC	CTAAACTTAA	GTACAAAGAA	GTGAATGAAG
-373	AAAAGTATGT	GCATGTATAA	ATCTGTGTGT	CTTCCACTTT	GTCCACATA	TACTAAATTT
-313	AAACATTCTT	CTAACGTGGG	AAAATCCAGT	ATTTTAATGT	GGACATCAAC	TGCACAACGA
-253	TTGTCTAGGAA	AACAATGCAT	ATTTGCATGG	TGATACATTT	GCAAAATGTG	TCATAGTTTG
-193	CTACTCCTTG	CCCTTCCATG	AACCAGAGAA	TTATCTCAGT	TTATTAGTCC	CCTCCCCATA
-133	GAAGCTTCCA	CCAATACTCT	TTTCCCCCTT	CCTTTAACTT	GATTGTGAAA	TCAGGTATTTC
-73	AACAGAGAAA	TTTCTCAGCC	TCCTACTTCT	GCTTTTGAAA	GCTATAAAAA	CAGCGAGGGA
-13	GAAACTGGCA	GATACCAAAC	CTCTTCGAGG	CACAAGGCAC	AACAGGCTGC	TCTGGGATTC
48	TCTTCAGCCA	ATCTTCATTG	CTCAAGTATG	ACTTTAATCT	TCCTTACAAC	TAGGTGCTAA
108	GGGAGTCTCT	CTGTCTCTCT	GCCTCTTTGT	GTGTATGCAT	ATTCTCTCTC	TCTCTCTCTT
168	TCTTTCTCTG	TCTCTCCTCT	CCTTCCTCTC	TGCCTCCTCT	CTCAGCTTTT	TGCAAAAATG
228	CCAGGTGTAA	TATAATGCTT	ATGACTCGGG	AAATATTCTG	GGAATGGATA	CTGCTTATCT
288	AACAGCTGAC	ACCCTAAAGG	TTAGTGTCAA	AGCCTCTGCT	CCAGCTCTCC	TAGCCAATAC
238	ATTGCTAGTT	GGGGTTTGGT	TTAGCAAATG	CTTTTCTCTA	GACCCAAAGG	ACTTCTCTTT
308	CACACATTCA	TTCATTTACT	CAGAGATCAT	TTCTTTGCAT	GACTGCCATG	CACTGGATGC
468	TGAGAGAAAT	CACACATGAA	CGTAGCCGTC	ATGGGGAAGT	CACTCATTTT	CTCCTTTTTA
528	CACAGGTGTC	TGAAGCAGCC	ATGGCAGAAG	TACCTGAGCT	CGCCAGTGAA	ATGATGGCTT
588	ATTACAGGTC	AGTGGAGACG	CTGAGACCAG	TAACATGAGC	AGGTCTCCTC	TTTCAAGAGT

Fig. 2A

```

648 AGAGTGTTAT CTGTGCTTGG AGACCAGATT TTTCCCCTAA ATTGCCTCTT TCAGTGGCAA
708 ACAGGGTGCC AAGTAAATCT GATTTAAAGA CTACTTTCCC ATTACAAGTC CCTCCAGCCT
768 TGGGACCTGG AGGCTATCCA GATGTGTTGT TGCAAGGGCT TCCTGCAGAG GCAAATGGGG
828 AGAAAAGATT CCAAGCCCAC AATACAAGGA ATCCCTTTGC AAAGTGTGGC TTGGAGGGAG
888 AGGGAGAGCT CAGATTTTAG CTGACTCTGC TGGGCTAGAG GTTAGGCCTC AAGATCCAAC
948 AGGGAGCACC AGGGTGCCCA CCTGCCAGGC CTAGAATCTG CCTTCTGGAC TGTTCTGCGC
1008 ATATCACTGT GAAACTTGCC AGGTGTTTCA GGCAGCTTTG AGAGGCAGGC TGTTTGCAGT
1068 TTCTTATGAA CAGTCAAGTC TTGTACACAG GGAAGGAAAA ATAAACCTGT TTAGAAGACA
1128 TAATTGAGAC ATGTCCCTGT TTTTATTACA GTGGCAATGA GGATGACTTG TTCTTTGAAG
1188 CTGATGGCCC TAAACAGATG AAGGTAAGAC TATGGGTTTA ACTCCCAACC CAAGGAAGGG
1248 CTCTAACACA GGGAAAGCTC AAAGAAGGGA GTTCTGGGCC ACTTTGATGC CATGGTATTT
1308 TGTTTTAGAA AGACTTTAAC CTCTTCCAGT GAGACACAGG CTGCACCACT TGCTGACCTG
1368 GCCACTTGGT CATCATATCA CCACAGTCAC TCACTAACGT TGGTGGTGGT GGCCACACTT
1428 GGTGGTGACA GGGGAGGAGT AGTGATAATG TTCCCATTTC ATAGTAGGAA GACAACCAAG
1488 TCTTCAACAT AAATTTGATT ATCCTTTTAA GAGATGGATT CAGCCTATGC CAATCACTTG
1548 AGTTAAACTC TGAAACCAAG AGATGATCTT GAGAACTAAC ATATGTCTAC CCCTTTTGAG
1608 TAGAATAGTT TTTTGCTACC TGGGGTGAAG CTTATAACAA CAAGACATAG ATGATATAAA
1668 CAAAAAGATG AATTGAGACT TGAAAGAAAA CCATTCACTT GCTGTTTGAC CTTGACAAGT
1728 CATTTTACCC GCTTTGGACC TCATCTGAAA AATAAAGGGC TGAGCTGGAT GATCTCTGAG
1788 ATTCCAGCAT CCTGCAACCT CCAGTTCTGA AATATTTTCA GTTGTAGCTA AGGGCATTTG
1848 GGCAGCAAAT GGTCATTTTT CAGACTCATC CTTACAAAGA GCCATGTTAT ATTCCTGCTG
1908 TCCCTTCTGT TTTATATGAT GCTCAGTAGC CTTCCTAGGT GCCCAGCCAT CAGCCTAGCT
1968 AGGTCAGTTG TGCAGGTTGG AGGCAGCCAC TTTTCTCTGG CTTTATTTTA TTCCAGTTTG
2028 TGATAGCCTC CCCTAGCCTC ATAATCCAGT CCTCAATCTT GTTAAAAACA TATTTCTTTA
2088 GAAGTTTTAA GACTGGCATA ACTTCTTGGC TGCAGCTGTG GGAGGAGCCC ATTGGCTTGT
2148 CTGCCTGGCC TTTGCCCCC ATTGCCTCTT CCAGCAGCTT GGCTCTGCTC CAGGCAGGAA
2208 ATTCTCTCCT GCTCAACTTT CTTTTGTGCA CTTACAGGTC TCTTTAACTG TCTTCAAGC
2268 CTTTGAACCA TTATCAGCCT TAAGGCAACC TCAGTGAAGC CTTAATACGG AGCTTCTCTG
2328 AATAAGAGGA AAGTGGTAAC ATTTACAAA AAGTACTCTC ACAGGATTTG CAGAATGCCT
2388 ATGAGACAGT GTTATGAAAA AGGAAAAAAA AGAACAGTGT AGAAAAATTG AATACTTGCT
2448 GAGTGAGCAT AGGTGAATGG AAAATGTTAT GGTCATCTGC ATGAAAAAGC AAATCATAGT
2508 GTGACAGCAT TAGGGATACA AAAAGATATA GAGAAGGTAT ACATGTATGG TGTAGGTGGG
2568 GCATGTACAA AAAGATGACA AGTAGAATCG GGATTTATTC TAAAGAATAG CCTGTAAGGT
2628 GTCCAGAAGC CACATTCTAG TCTTGAGTCT GCCTCTACCT GCTGTGTGCC CTTGAGTACA
2688 CCCTTAACCT CTTGAGCTT CAGAGAGGGA TAATCTTTTT ATTTTATTTT ATTTTATTTT
2748 GTTTTGT TTTTGT TTTTATGAG ACAGAGTCTC ACTCTGTTGC CCAGGCTGGA
2808 GTGCAGTGGT ACAATCTTGG CTTACTGCAT CCTCCACCTC CTGAGTTCAA GCGATTCTCC
2868 TTCCTCAGTC TCCTGAATAG CTAGGATTAC AGGTGCACCC CACCACACCC AGCTAATTTT
2928 TGTATTTTTA GTAGAGAAGG GGTTTCGCCA TGTTGGCCAG GCTGGTTTTG AAGTCCTGAC
2988 CTAAATGATT CATCCACCTC GGCTTCCCAA AGTGCTGGGA TTACAGGCAT GAGCCACCAC
3048 GCCTGGCCCA GAGAGGGATG ATCTTTAGAA GCTCGGGATT CTTTCAAGCC CTTTCTCTCT
3108 CTCTGAGCTT TCTACTCTCT GATGTCAAAG CATGGTTCCT GGCAGGACCA CCTCACCAGG
3168 CTCCCTCCCT CGCTCTCTCC GCAGTGCTCC TTCCAGGACC TGGACCTCTG CCCTCTGGAT
3228 GGCGGCATCC AGCTACGAAT CTCCGACCAC CACTACAGCA AGGGCTTCAG GCAGGCCGCG

```

Fig. 2B

```

3288 TCAGTTGTTG TGGCCATGGA CAAGCTGAGG AAGATGCTGG TTCCCTGCCC ACAGACCTTC
3348 CAGGAGAATG ACCTGAGCAC CTTCTTTCCC TTCATCTTTG AAGAAGGTAG TTAGCCAAGA
3408 GCAGGCAGTA GATCTCCACT TGTGTCTCTT TGGAAGTCAT CAAGCCCCAG CCAACTCAAT
3468 TCCCCCAGAG CCAAAGCCCT TTAAAGGTAG AAGGCCCAGC GGGGAGACAA AACAAAGAAG
3528 GCTGGAAACC AAAGCAATCA TCTCTTTAGT GGAAACTATT CTTAAAGAAG ATCTTGATGG
3588 CTACTGACAT TTGCAACTCC CTCACTCTTT CTCAGGGGCC TTTCACCTAC ATTGTCACCA
3648 GAGGTTTCGT ACCTCCCTGT GGGCTAGTGT TATGACCATC ACCATTTTAC CTAAGTAGCT
3708 CTGTTGCTCG GCCACAGTGA GCAGTAATAG ACCTGAAGCT GGAACCCATG TCTAATAGTG
3768 TCAGGTCCAG TGTTCTTAGC CACCCCCTC CCAGCTTCAT CCTACTGGT GTTGTCATCA
3828 GACTTTGACC GTATATGCTC AGGTGTCTC CAAGAAATCA AATTTTGCCA CCTCGCCTCA
3888 CGAGGCCTGC CCTTCTGATT TTATACCTAA ACAACATGTG CTCCACATTT CAGAACCTAT
3948 CTTCTTCGAC ACATGGGATA ACGAGGCTTA TGTGCACGAT GCACCTGTAC GATCACTGAA
4008 CTGCACGCTC CGGGACTCAC AGCAAAAAAG CTTGGTGATG TCTGGTCCAT ATGAACTGAA
4068 AGCTCTCCAC CTCCAGGGAC AGGATATGGA GCAACAAGGT AAATGGAAAC ATCCTGGTTT
4128 CCCTGCCTGG CCTCCTGGCA GCTTGCTAAT TCTCCATGTT TTAAACAAAG TAGAAAGTTA
4188 ATTTAAGGCA AATGATCAAC ACAAGTGAAA AAAAATATTA AAAAGGAATA TACAACTTTT
4248 GGTCCTAGAA ATGGCACATT TGATTGCACT GGCCAGTGCA TTTGTTAACA GGAGTGTGAC
4308 CCTGAGAAAT TAGACGGCTC AAGCACTCCC AGGACCATGT CCACCCAAGT CTCTTGGGCA
4368 TAGTGCAGTG TCAATTCTTC CACAATATGG GGTCAATTGA TGGACATGGC CTAAGTGCCT
4428 GTGGGTTCTC TCTTCCTGTT GTTGAGGCTG AAACAAGAGT GCTGGAGCGA TAATGTGTCC
4488 ATCCCCCTCC CCAGTCTTCC CCCCTTGCCC CAACATCCGT CCCACCCAAT GCCAGGTGGT
4548 TCCTTGTAGG GAAATTTTAC CGCCAGCAG GAACTTATAT CTCTCCGCTG TAACGGGCAA
4608 AAGTTTCAAG TGCGGTGAAC CCATCATTAG CTGTGGTGAT CTGCCTGGCA TCGTGCCACA
4668 GTAGCCAAAG CCTCTGCACA GGAGTGTGGG CAACTAAGGC TGCTGACTTT GAAGGACAGC
4728 CTCCTCAGG GGAAGCTAT TTGCTCTCAG CCAGGCCAAG AAAATCCTGT TTCTTTGGAA
4788 TCGGGTAGTA AGAGTGATCC CAGGGCCTCC AATTGACACT GCTGTGACTG AGGAAGATCA
4848 AAATGAGTGT CTCTCTTTGG AGCCACTTTC CCAGCTCAGC CTCTCCTCTC CCAGTTTCTT
4908 CCCATGGGCT ACTCTCTGTT CCTGAAACAG TTCTGGTGCC TGATTTCTGG CAGAAGTACA
4968 GCTTCACCTC TTTCTTTTCC TTCCACATTG ATCAAGTTGT TCCGCTCCTG TGGATGGGCA
5028 CATTGCCAGC CAGTGACACA ATGGCTTCCT TCCTTCCTTC CTTACGATT TAAAATGTAG
5088 ACCCTCTTTC ATTCTCCGTT CCTACTGCTA TGAGGCTCTG AGAAACCTC AGGCCTTTGA
5148 GGGGAAACCC TAAATCAACA AAATGACCTT GCTATTGTCT GTGAGAAGTC AAGTTATCCT
5208 GTGTCTTAGG CCAAGGAACC TCACTGTGGG TTCCACAGA GGCTACCAAT TACATGTATC
5268 CTACTCTCGG GGCTAGGGGT TGGGGTGACC CTGCATGCTG TGTCCCTAAC CACAAGACCC
5328 CCTTCTTTCT TCAGTGGTGT TCTCCATGTC CTTTGTACAA GGAGAAGAAA GTAATGACAA
5388 AATACCTGTG GCCTTGGGCC TCAAGGAAAA GAATCTGTAC CTGTCTGCG TGTGAAAGA
5448 TGATAAGCCC ACTCTACAGC TGGAGGTAAG TGAATGCTAT GGAATGAAGC CCTTCTCAGC
5508 CTCTGCTAC CACTTATTCC CAGACAATTC ACCTTCTCCC CGCCCCATC CTTAGGAAAA
5568 GCTGGGAACA GGTCTATTTG ACAAGTTTTG CATTAATGTA AATAAATTTA ACATAATTTT
5628 TAACTGCGTG CAACCTTCAA TCCTGCTGCA GAAAATTAAA TCATTTTGCC GATGTTATTA
5688 TGTCCTACCA TAGTTACAAC CCCAACAGAT TATATATTGT TAGGGCTGCT CTCATTGAT
5748 AGACACCTTG GGAAATAGAT GACTTAAAGG GTCCCATTAT CACGTCCACT CCACTCCCAA
5808 AATCACCACC ACTATCACCT CCAGCTTTCT CAGCAAAAGC TTCATTTCCA AGTTGATGTC

```

Fig. 2C

```

5868 ATTCTAGGAC CATAAGGAAA AATACAATAA AAAGCCCCTG GAAACTAGGT ACTTCAAGAA
5928 GCTCTAGCTT AATTTTCACC CCCCCAAAAA AAAAAAATTC TCACCTACAT TATGCTCCTC
5988 AGCATTTGGC ACTAAGTTTT AGAAAAGAAG AAGGGCTCTT TTAATAATCA CACAGAAAGT
6048 TGGGGGCCCA GTTACAACCTC AGGAGTCTGG CTCCTGATCA TGTGACCTGC TCGTCAGTTT
6108 CCTTTCTGGC CAACCCAAAG AACATCTTTC CCATAGGCAT CTTTGTCCCT TGCCCCACAA
6168 AAATTCCTCT TTCTCTTTTCG CTGCAGAGTG TAGATCCCAA AAATTACCCA AAGAAGAAGA
6228 TGGAAAAGCG ATTTGTCTTC AACAAGATAG AAATCAATAA CAAGCTGGAA TTTGAGTCTG
6288 CCCAGTTCCC CAACTGGTAC ATCAGCACCT CTCAAGCAGA AAACATGCCC GTCTTCCTGG
6348 GAGGGACCAA AGGCGGCCAG GATATAACTG ACTTCACCAT GCAATTTGTG TCTTCCTAAA
6408 GAGAGCTGTA CCCAGAGAGT CCTGTGCTGA ATGTGGACTC AATCCCTAGG GCTGGCAGAA
6468 AGGGAACAGA AAGGTTTTTG AGTACGGCTA TAGCCTGGAC TTTCTGTGTTG TCTACACCAA
6528 TGCCCAACTG CCTGCCTTAG GGTAAGTCTA AGAGGATCTC CTGTCCATCA GCCAGGACAG
6588 TCAGCTCTCT CCTTTCAGGG CCAATCCCCA GCCCTTTTGT TGAGCCAGGC CTCTCTCACC
6648 TCTCCTACTC ACTTAAAGCC CGCCTGACAG AAACCACGGC CACATTTGGT TCTAAGAAAC
6708 CCTCTGTCAT TCGCTCCAC ATTCTGATGA GCAACCGCTT CCCTATTTAT TTATTTATTT
6768 GTTTGTTTGT TTTGATTCAT TGGTCTAATT TATTCAAAGG GGGCAAGAAG TAGCAGTGTC
6828 TGTAAGAGAG CCTAGTTTTT AATAGCTATG GAATCAATTC AATTTGGACT GGTGTGCTCT
6888 CTTTAAATCA AGTCCTTTAA TTAACACTGA AAATATATAA GCTCAGATTA TTTAAATGGG
6948 AATATTTATA AATGAGCAAA TATGATACTG TTCAATGGTT CTGAAATAAA CTTCACTGAA
7008 GAAAAAAAAA AAAGGGTCTC TCCTGATCAT TGAAGTCTCT GATTGACACT GACAGTAAGC
7068 AACAGGCTG TGAGAGTTCT TGGGACTAAG CCCACTCCTC ATTGCTGAGT GCTGCAAGTA
7128 CCTAGAAATA TCCTTGGCCA CCGAAGACTA TCCTCCTCAC CCATCCCCTT TATTTCTGTTG
7188 TTCAACAGAA GGATATTCAG TGCACATCTG GAACAGGATC AGCTGAAGCA CTGCAGGGAG
7248 TCAGGACTGG TAGTAACAGC TACCATGATT TATCTATCAA TGCACCAAAC ATCTGTTGAG
7308 CAAGCGCTAT GTACTAGGAG CTGGGAGTAC AGAGATGAGA ACAGTCACAA GTCCCTCCTC
7368 AGATAGGAGA GGCAGCTAGT TATAAGCAGA ACAAGGTAAC ATGACAAGTA GAGTAAGATA
7428 GAAGAACGAA GAGGAGTAGC CAGGAAGGAG GGAGGAGAAC GACATAAGAA TCAAGCCTAA
7488 AGGGATAAAC AGAAGATTTT CACACATGGG CTGGGCCAAT TGGGTGTCGG TTACGCCTGT
7548 AATCCCAGCA CTTTGGGTGG CAGGGGAGAG AAGATCGCTT GAGCCCAGGA GTTCAAGACC
7608 AGCCTGGGCA ACATAGTGAG ACTCCCATCT CTACAAAAAA TAAATAAATA AATAAAACAA
7668 TCAGCCAGGC ATGCTGGCAT GCACCTGTAG TCCTAGCTAC TTGGGAAGCT GACACTGGAG
7728 GATTGCTTGA GCCCAGAAGT TCAAGACTGC AGTGAGCTTA TCCGTTGACC TGCAGGTCGA
7788 C

```

Fig. 2D

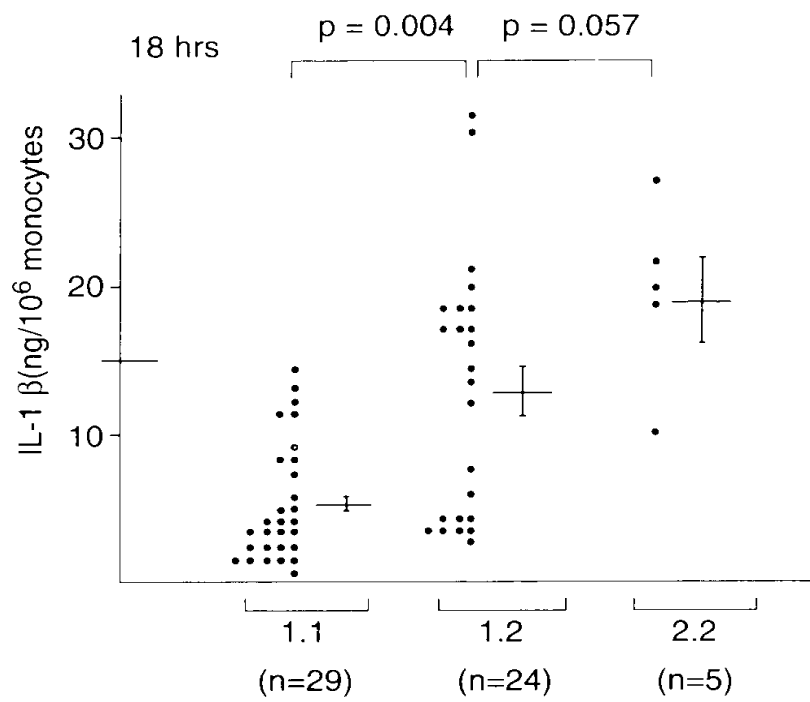


Fig. 3A

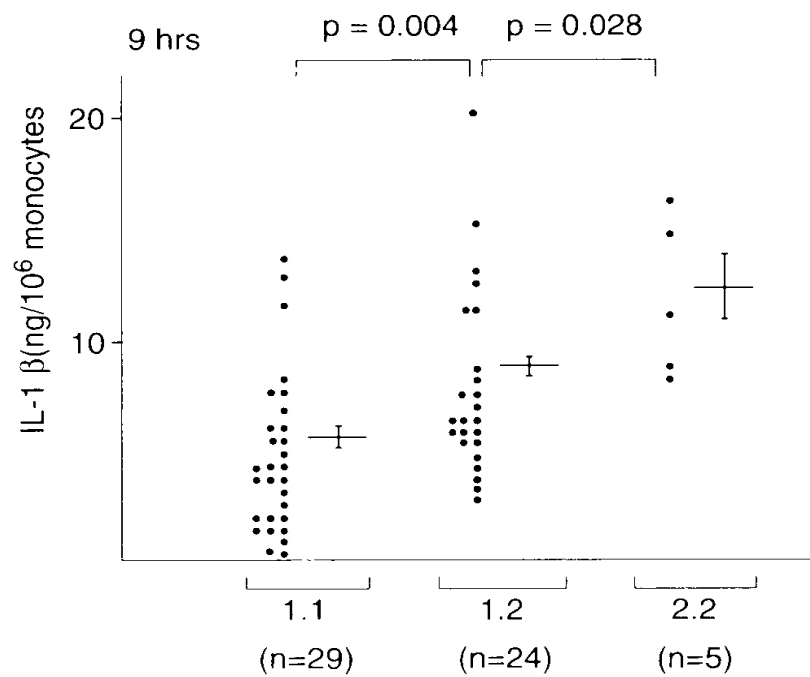


Fig. 3B

$p = 0.0143$	$p = 0.0275$	$p = 0.05$	$p = 0.06$
63.94 ± 7.73	43.75 ± 3.49	17.58 ± 4.87	8.48 ± 2.15
26.36 ± 5.95	15.94 ± 8.59	7.64 ± 2.10	3.57 ± 1.13

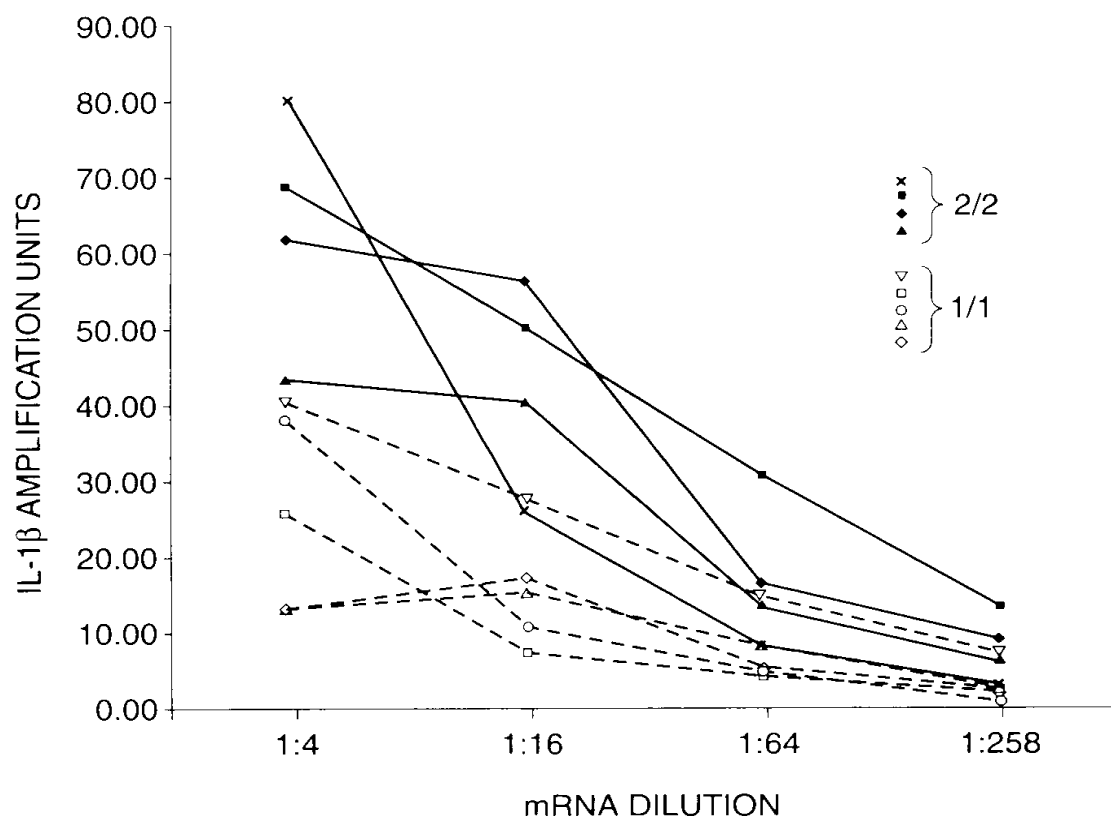


Fig. 4